

WHAT IS CLAIMED IS:

1. A toner obtained by polymerizing a polymerizable monomer composition comprising at least a polymerizable monomer and a colorant, wherein:

the polymerizable monomer composition is polymerized using a polymerization initiator comprising a redox initiator which comprises an organic peroxide with a 10-hour half-life temperature of 86°C or higher and a reducing agent;

the toner has a ratio of a weight-average particle diameter to a number-average particle diameter (weight-average particle diameter/number-average particle diameter) of 1.40 or less;

the toner has top of a main-peak in a molecular weight range of 5,000 to 50,000 in a molecular weight distribution measured using a gel permeation chromatography (GPC) of a THF-soluble part thereof; and

the toner contains t-butanol with a content of 0.1 to 1,000 ppm.

2. The toner according to claim 1, wherein the reducing agent is an organic compound which does not comprise a sulfur atom or a nitrogen atom.

3. The toner according to claim 1, wherein the reducing agent is an ascorbic acid or an ascorbate.

4. The toner according to claim 1, wherein the organic peroxide is selected from the group consisting of t-butylhydroperoxide, di-t-butylperoxide, and t-butylperoxyisopropyl monocarbonate.

5. The toner according to claim 1, wherein the polymerizable monomer composition further comprises a wax.

6. The toner according to claim 5, wherein 1 to 30% by mass of the wax is contained with respect to a binder resin.

7. The toner according to claim 1, wherein the toner has a mode circularity of 0.99 or more.

8. The toner according to claim 5, wherein the wax has an endothermic peak measured by a differential thermal analysis in a range of 40 to 150°C.

9. The toner according to claim 1, further comprising an inorganic fine particle having a number-average primary particle diameter of 4 to 100 nm on a surface of the toner.

10. The toner according to claim 9, wherein the

inorganic fine particle comprises at least one selected from the group consisting of silica, titanium oxide, and alumina.

11. The toner according to claim 9, wherein a rate of liberation of the inorganic fine particle from the toner is 0.1 to 2.0%.

12. The toner according to claim 1, wherein the colorant comprises a chromatic colorant.

13. The toner according to claim 1, further comprising a magnetic substance.

14. A toner according to claim 1, wherein the toner has an average circularity of 0.970 or more.

15. A toner obtained by polymerizing a polymerizable monomer composition comprising at least a polymerizable monomer and a colorant, wherein the polymerizable monomer composition is polymerized using a polymerization initiator comprising a redox initiator which comprises an organic peroxide with a 10-hour half-life temperature of 86°C or higher and a reducing agent.